

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number:	12-409
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PROJECT INFORMATION

Project Title: Redevelopment of Catchment 661

Region and Game Management Unit: Region IV, GMU 42

Local Habitat Partnership Committee (LHPC):
 • Southwest

Was the project presented to the LHPC?
YES[X] **NO**[]

Has this project been submitted in previous years? **YES**[X] **NO**[]

If Yes, was it funded? **YES**[] **NO**[X] → **HPC Project #:**

Project Type: Water Development

Brief Project Summary: Redevelopment of existing mule deer water that was damaged when high winds removed a section of the old tin apron. The remaining system requires several water hauls a year to maintain.

Big Game Wildlife Species to Benefit: Mule Deer (primary)

Implementation Schedule (Month/Day/Year):

Project Start Date:
January 1, 2014

Project End Date:
April 30, 2014

Environmental Compliance:

NEPA Completed: **YES**[] **No**[X] **N/A**[]

Projected Completion Date: 10-15-12

State Historic Preservation Office - Archaeological Clearance:

YES[x] **No**[] **N/A**[]

Projected Completion Date: _____

Arizona Game and Fish Department EA Checklist: **N/A**[]

To be Completed by: Craig Heath

Projected Completion Date: 5-1-13

PROJECT FUNDING

Special Big Game License Tag Funds Requested:

\$ 20,592

Cost Share or Matching Funds:

\$ 3,863

Total Project Costs:

\$ 24,455

PARTICIPANT INFORMATION

Applicant (please print):
Craig Heath

Address:
9140 E. 28th Street
Yuma, AZ 85365

E-mail:
cheath@azgfd.gov

Telephone: 928-856-0764

Date: 8/22/11

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with:

Bureau of Land Management – Hassayampa Field Office

NEED STATEMENT – PROBLEM ANALYSIS:

AZGFD wildlife water #661 was constructed in the 1960's for mule deer and was improved in the 1980's with an added steel ring tank and tin apron. It receives heavy summertime use by mule deer. Several years ago, the tin apron section was damaged by high winds and removed. The remaining system continues to function but requires several water hauling trips in a normal year to maintain the system.

PROJECT OBJECTIVES:

Reduce long-term maintenance costs by increasing the storage capacity and reliability of a well-used mule deer water catchment that has functioned in a dry, remote portion of the Big Horn Mountains of GMU 42.

PROJECT DESCRIPTION AND STRATEGIES:

Remove the remains of the ring tank and tin apron system and replace it with a buried PVC system using a natural runoff collection system.

PROJECT LOCATION:

Big Horn Mountains, Maricopa County, AZ (T.3N, R.8W, S3) (33° 37.843' 113° 4.088').

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

U.S. Bureau of Land Management (Hassayampa Field Office)

HABITAT DESCRIPTION:

The Big Horn Mountains range in elevation from 1600' at their base to 3480' at Big Horn Peak. The topography is mostly gently rolling hills with some rugged cliffs. The Sonoran desertscrub vegetative community encompasses the mountain range with two sub-divisions evident: the Upper Sonoran desertscrub community and the Lower Sonoran desertscrub community as described by Brown and Lowe (1980). The nearest perennial deer water is 2.64 miles to the west.

ITEMIZED USE OF FUNDS:

Special Big Game Tag Funds

Materials:

PVC System	- 24" dia. x 20' = \$536 (per pipe) x 20 pipes	\$10,720
	- 24" dia solid end caps = \$256 x 4.....	\$1,024
	- 24" dia. End caps w/ 2" outlets = \$287 x 4.....	\$1,148
	- Connective plumbing, which should include 30' of 2" flexible spa hose, various adaptors and connectors, glue and primer, street ells, 4" schedule 40 pipe, 6" schedule 40 pipe, etc.....	\$1,200
	Cement, hardware cloth, stucco, lathe, 24" galvanized nipples, etc...	\$700
	Walk-in trough 3' fiberglass.....	\$800

Standard 150'x150' 3 rail pipe fence w/ cement.....\$3,000

Water Rights Application.....\$2,000

TOTAL TAG FUNDS.....\$20,592

Cost Share or Matching Funds

Southwest Hunting Adventures volunteer Backhoe and Operator (John Deere 310 G 4x4 or equivalent, 4 days).....	\$1,380
Volunteer labor @ \$113/day x 20 man days (cost share).....	\$2,260
Volunteer mileage @ \$.445/mile x 500 miles.....	\$223
TOTAL COST SHARE.....	\$3,863

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Region IV in conjunction with Development Branch (Water Rights Application), Habitat Branch and BLM will complete the necessary environmental clearances for the project. AGFD Region IV will provide construction coordination including transport of necessary tools and material to and from the project area. Volunteer labor associated with construction of the water development will be coordinated with local volunteers in Region IV. Volunteers from Southwest Hunting Adventures will provide a backhoe and operator.

PROJECT MONITORING PLAN:

AGFD Region IV will monitor water levels according to the Regional water development protocol.

PROJECT MAINTENANCE:

AGFD Region IV will monitor water levels according to the Regional water development protocol.

PROJECT COMPLETION REPORT TO BE FILED BY:

Craig Heath, AGFD Region IV.

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT TITLE: Redvelopment of Catchment 661

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**

Yes (2011 and 2012 versions)

- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Ed Jahrke, Joe Currie (8/2011)

- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**

☐2-4 ☐4-6 ☒6-8 ☐8-10 ☐10-12 ☐12-14 ☐14-16 ☐ >16

- 4) **Is there a perennial water source available to big game within four miles of this project?**

YES☒ (please complete #5 below) NO☐ (skip #5 below)

- 5) **For the accessible, perennial water source nearest this project:**

Name of water source: Catchment 948

Type of water source ; Catchment

Ownership of water source: AGFD catchment on BLM land

Distance in miles from project: 2.64 miles

- 6) **Is the target wildlife species a result of transplant efforts?** YES☐ NO☒

- 7) **Please list any special land management status for the project site;**

None

- 8) **Please provide the following information about access to the proposed site:**

Type of access (mark one): ☐2x4 vehicles ☒4x4 only ☐foot only**

-- Does access to this site require crossing private or tribal lands? YES☐ NO☒

-- Please describe any restrictions to public access: None

- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

Attached

- 10) **Was a site visit completed?** Yes☒ No☐

If Yes, please list personnel that attended and date.

Region 4, Development Branch, BLM (multiple site visits)

CATCHMENT 661 REDEVELOPMENT SCHEMATIC



